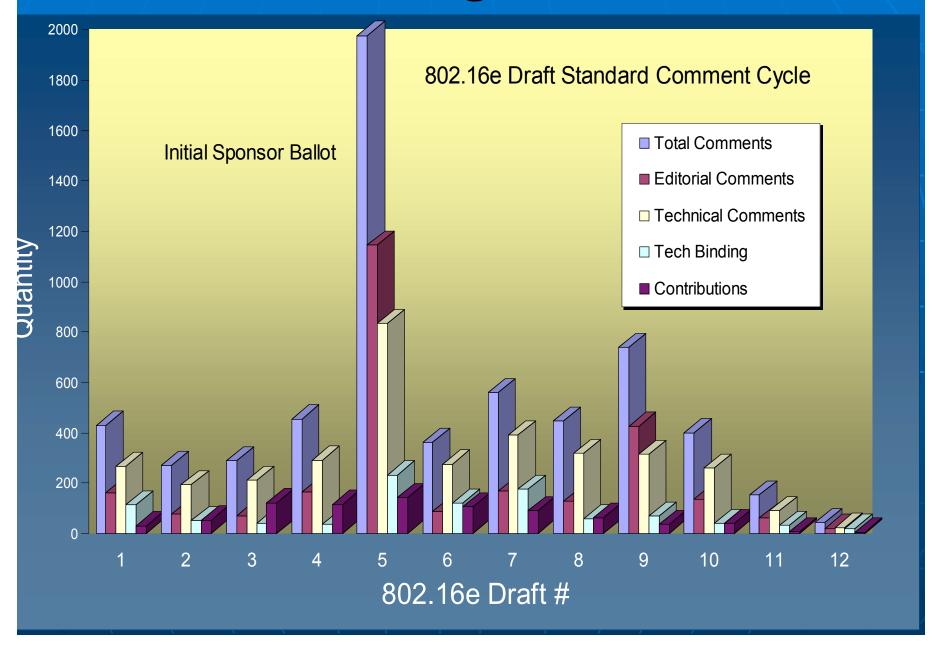
The Sordid Saga of Sixteen - e

- Born In Controversy; 802.16e vs. 802.20
- Started before the 802.16a ink was dry
 - Approved Dec 2002
 - 1st Call for Contributions Dec 2002
 - First Meeting January 2003
- Originally scoped as a limited mobility adjunct to fixed operation
 - Existing 802.16a PHYs (modified as needed)
 - MAC enhancements to support Handover
 - Backwards Compatibility with 802.16a fixed
- Plagued by Discontent:
 - Revised PAR in mid-2003 to add new PHY modes
 - 802.20 Protest to IEEE SA
- Grew to Become a Full Cellular Approach

- Three Years; Dec 2002 Dec 2005
- Sixteen full Meetings plus many Ad Hocs
- Typically 200 300 people per meeting
- Nearly 1000 Contributions plus Hundreds of Revised Contributions
- Twelve official drafts
 - Over 6000 comments
 - 810 Contributions
 - Finally 684 Pages
 - Final Sponsor Recirc: D12
 - No Comments
 - 138 Approve (98.6%)
 - 2 Disapprove
 - 10 Abstain



What 802.16e Added

PHY

- Kept the Fixed PHYs but added "Scalable OFDMA"
 - 128, 512, and 1024 FFT
- Expanded MIMO Support

MAC

- Hybrid ARQ
- Handover Support
 - Make-Before-Break
 - Macro-Diversity Handover
- Sleep Mode
- Idle Mode (Paging)
- Scanning for neighbors
- Advertisement of neighborhood
- Efficient network re-entry process

Extensive Security Enhancements

- It's Not Quite Over Yet!!
 - REVCOM 6 December
 - IEEE SA 7 December
 - Published A Christmas Present (?)
- Still NO Profiles!!!
- Make it Work (see Profiles)
- Sell It